RCA

7G7

SHARP-CUTOFF PENTODE

7G7

GENERAL DATA

Electrical:

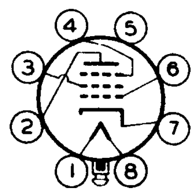
Heater, for Unipotential Cathode:		
Voltage	6.3□	ac or dc volts
Current	0.45□□	amp
Direct Interelectrode Capacitances:o		
Grid No.1 to Plate	0.007 max.	μμf
Input	9	μμf
Output	7	μμf

o With external shield connected to cathode.

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-25/32"
Maximum Seated Length	2-1/4"
Maximum Diameter	1-3/16"
Bulb	T-9
Base	Lock-in 8-Pin
Basing Designation for BOTTOM VIEW	8V

Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Grid No.2
Pin 4 - Grid No.3
Pin 5 - Internal Shield



Pin 6 - Grid No.1
Pin 7 - Cathode
Pin 8 - Heater

Plug - Base Shell

AMPLIFIER - Class A_1

Maximum Ratings, ***Design-Center Values*:**

PLATE VOLTAGE	300 max.	volts ←
GRID-No.2 (SCREEN) VOLTAGE	100 max.	volts
GRID-No.2 SUPPLY VOLTAGE	300 max.	volts ←
PLATE DISSIPATION	1.5 max.	watts
GRID-No.2 DISSIPATION	0.3 max.	watt ←
PEAK HEATER-CATHODE VOLTAGE: ←		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage	250	volts
Grid No.3	Connected to cathode at socket	
Internal Shield	Connected to cathode at socket	
Grid-No.2 Voltage	100	volts
Grid-No.1 Voltage	-2	volts
Cathode-Bias Resistor	250	ohms
Plate Resistance (Approx.)	0.8	megohm
Transconductance	4500	μmhos

(continued on next page)

□ Nominal voltage = 7.0 volts. □□ Nominal current = 0.48 ampere.
← Indicates a change.

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→ Grid-No.1 Bias (Approx.) for Cathode Current Cutoff	-7 . .	volts
Plate Current.	6 . .	ma
Grid-No.2 Current.	2 . .	ma

→ Indicates a change.

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